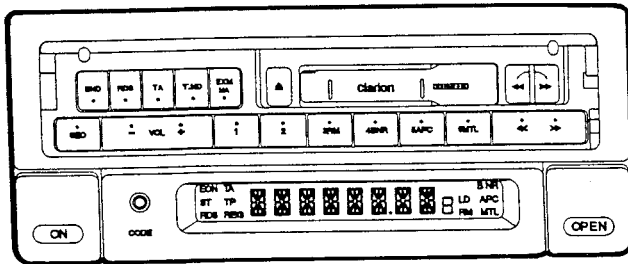


clarion

Service Manual

Published by Service Information Section



PEUGEOT RDS-EON/FM·MPX/MW/LW RADIO CASSETTE COMBINATION

Model PU-9880A

EON : Audio mode selector / Loudness (Press for over 2 seconds.)

T.MD : Tuning mode selector

/ DX/LO selector (Press for over 2 seconds.)

MA/EXM : Preset scan / Auto store memory (Press for over 2 seconds.)

SPECIFICATIONS:

[RADIO Section]

Circuit system:	Superheterodyne
Tuning system:	Electronic tuning
Receive range:	FM 87.5MHz to 108.0MHz MW 531kHz to 1602kHz LW 153kHz to 279kHz
Intermediate frequency:	FM 10.7MHz M/L 450kHz
Quieting sensitivity:	FM Less than 14dB (at 30dB S/N) MW Less than 35dB (at 20dB S/N) LW Less than 40dB (at 20dB S/N)
Separation:	FM More than 20dB
Auto stop sensitivity:	FM DX:20±10dB MW DX:30±10dB LW DX:30±10dB

FF, REW time: Less than 95sec.(C-60)


[SYNTHESYS]

Load impedance:	4Ω × 4
Maximum output power:	MW More than 8W × 4 (at 999kHz, 74dB, VOL:Max) LW More than 8W × 4 (at 216kHz, 74dB, VOL:Max) TAPE More than 10W × 4 (1kHz, 0VU, VOL:Max)
Power supply voltage:	DC 13.5V Negative ground
Current consumption:	Less than 10A (at output:Max)
Dimensions:	178(W) × 50(H) × 160(D)mm
Weight:	1.6kg

[TAPE Section]

Reproduction system:	4 track, 2-channel, stereo cassette deck
Tape speed:	4.76cm/sec.(1-7/8"/sec.)
Wow & flutter:	Less than 0.20%(W.R.M.S)
Separation:	More than 30dB
Crosstalk:	More than 40dB
S/N ratio:	Normal tape (120μs) 48dB/56dB (DOLBY ON) Metal tape (70μs) 50dB/58dB (DOLBY ON)

● Dolby noise reduction manufactured under license from Dolby laboratories Corporation.

● "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

COMPONENTS:

● PU-9880A-A

Main unit	1
Mounting bracket	300-9393-01 1

■COMPUTER ANTI-THEFT SYSTEM(CATS):

This unit incorporates a Computer Anti-Theft System(CATS). CATS is a system which, if power to the unit has been interrupted for any reason whatsoever

—including disconnection and reconnection of the battery —makes the radio inoperative **UNLESS THE CATS CODE NUMBER IS CORRECTLY INPUT.**

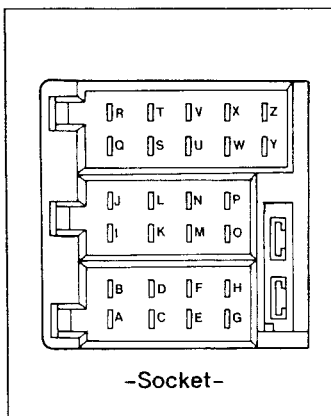
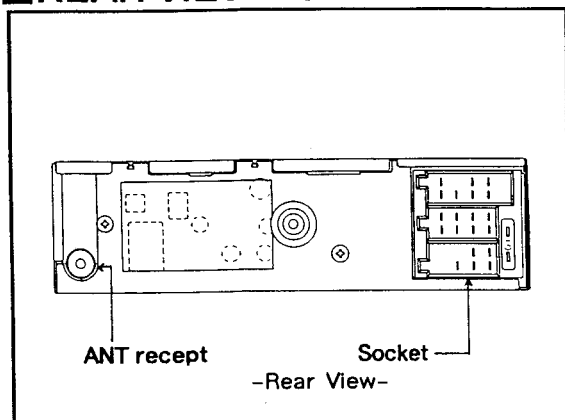
RELEASE CATS

- 1.Make the necessary wire connections.
- 2.Turn on the ignition key.
- 3.Press POWER switch to turn the power on.
"CODE IN" appears on the display.
- 4.Input the code number, using the preset buttons.
The code number you have input appears on the display.
- 5.If the input code number is correct, the radio turns on.
A radio frequency appears on the display.

If the input code number is incorrect, the number remain on the display. To input the code number again, press the BND switch for at least 2 seconds."CODE IN" re-appears on the display. Input the correct code number.

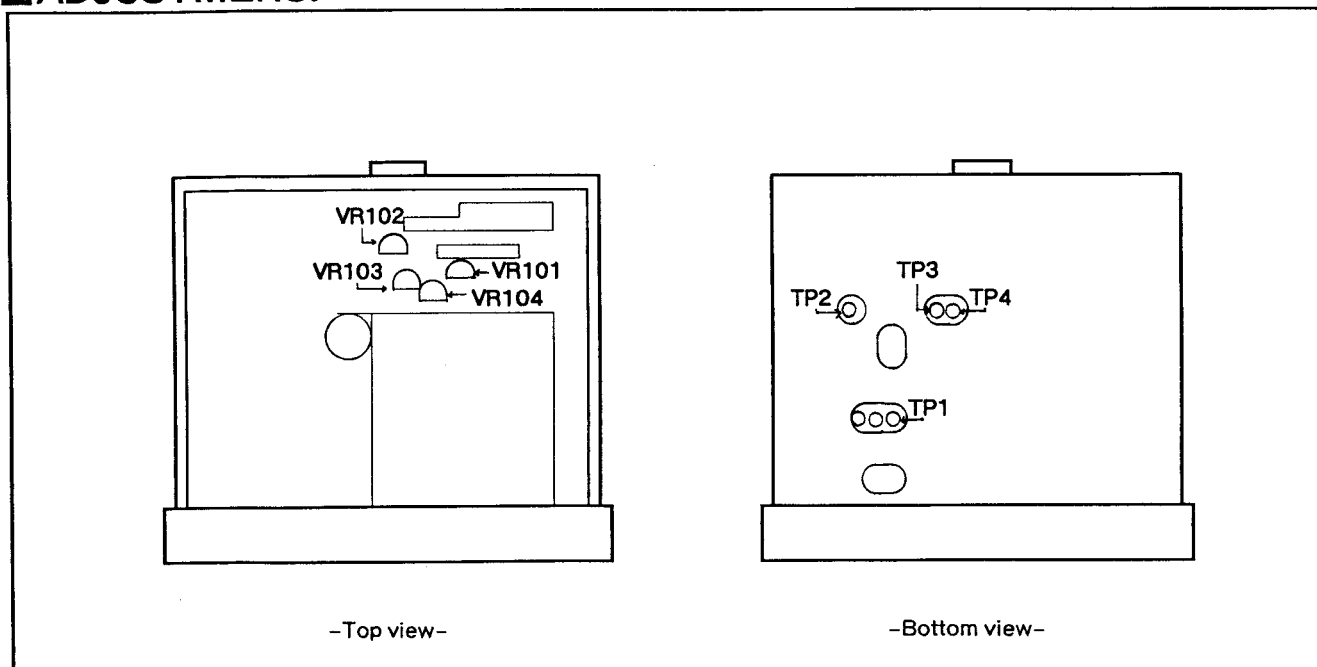
If you input an incorrect code number three times in succession, it became impossible to input the code for one hour, even if the BND switch is pressed for over 2 seconds.

■REAR VIEW • CONNECTIONS:



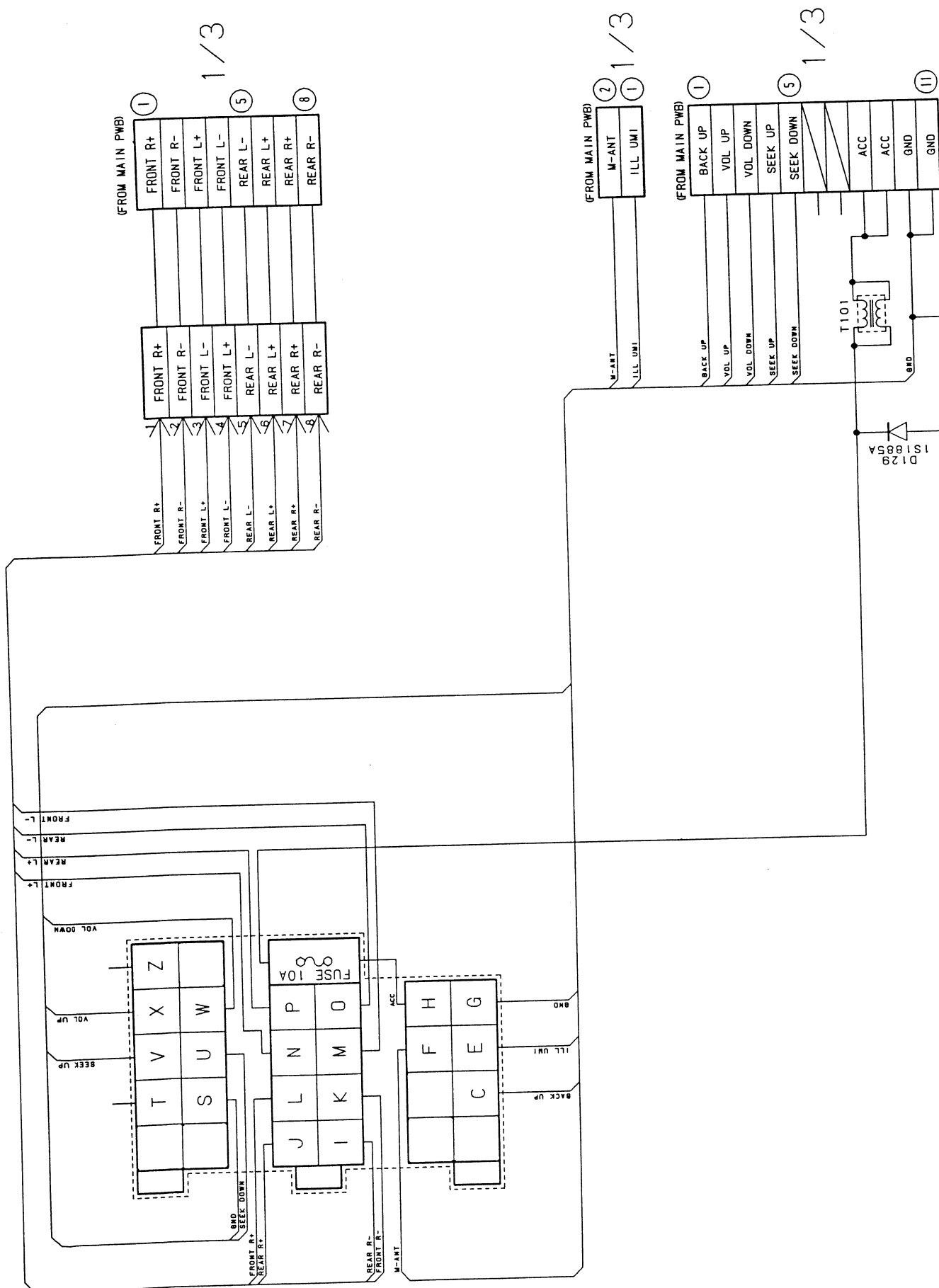
- | | |
|------------------|------------------|
| A. - | N. Front Lch (+) |
| B. - | O. Rear Lch (-) |
| C. Back up | P. Rear Lch (+) |
| D. - | Q. - |
| E. Illumination | R. - |
| F. Power ANT | S. GND |
| G. GND | T. - |
| H. ACC | U. Seek down |
| I. Rear Rch (-) | V. Seek up |
| J. Rear Rch (+) | W. Volume (-) |
| K. Front Rch (-) | X. Volume (+) |
| L. Front Rch (+) | Y. - |
| M. Front Lch (-) | Z. - |

■ADJUSTMENS:



Adj-Item	Procedure
S-meter	1.Connect the digital volt-meter to TP1. 2.Input the 98.1MHz / 65dB (400Hz 30% MOD), and adjust the level to $4.5 \pm 0.1V$ by VR102.
57kHz (B.P.F)	1.Input the 98.1MHz / 65dB (5.3% SK MOD). 2.Connect the oscilloscope to TP2, and adjust VR101 so that the waveform of TP2 is maximum.
Bolby NR	1.Insert a dolby level test tape (400Hz-200nWb/m), connect the milli volt-meter to TP3(R) and TP4(L). 2.Adjust VR103(R) and VR104(L) to obtain an output of $245mV \pm 1dB$.

© Main P.W.B (2/2)



A

B

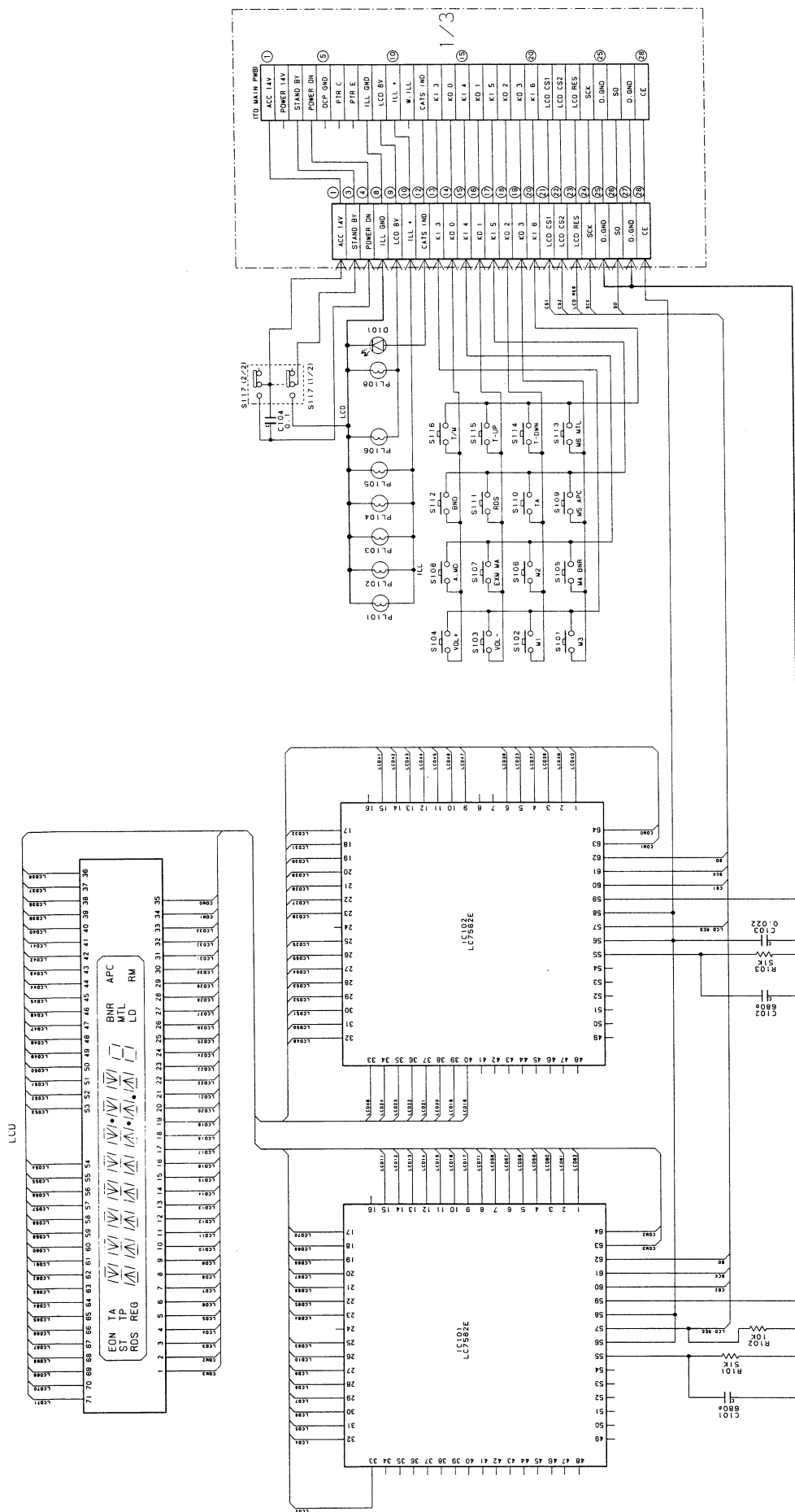
C

D

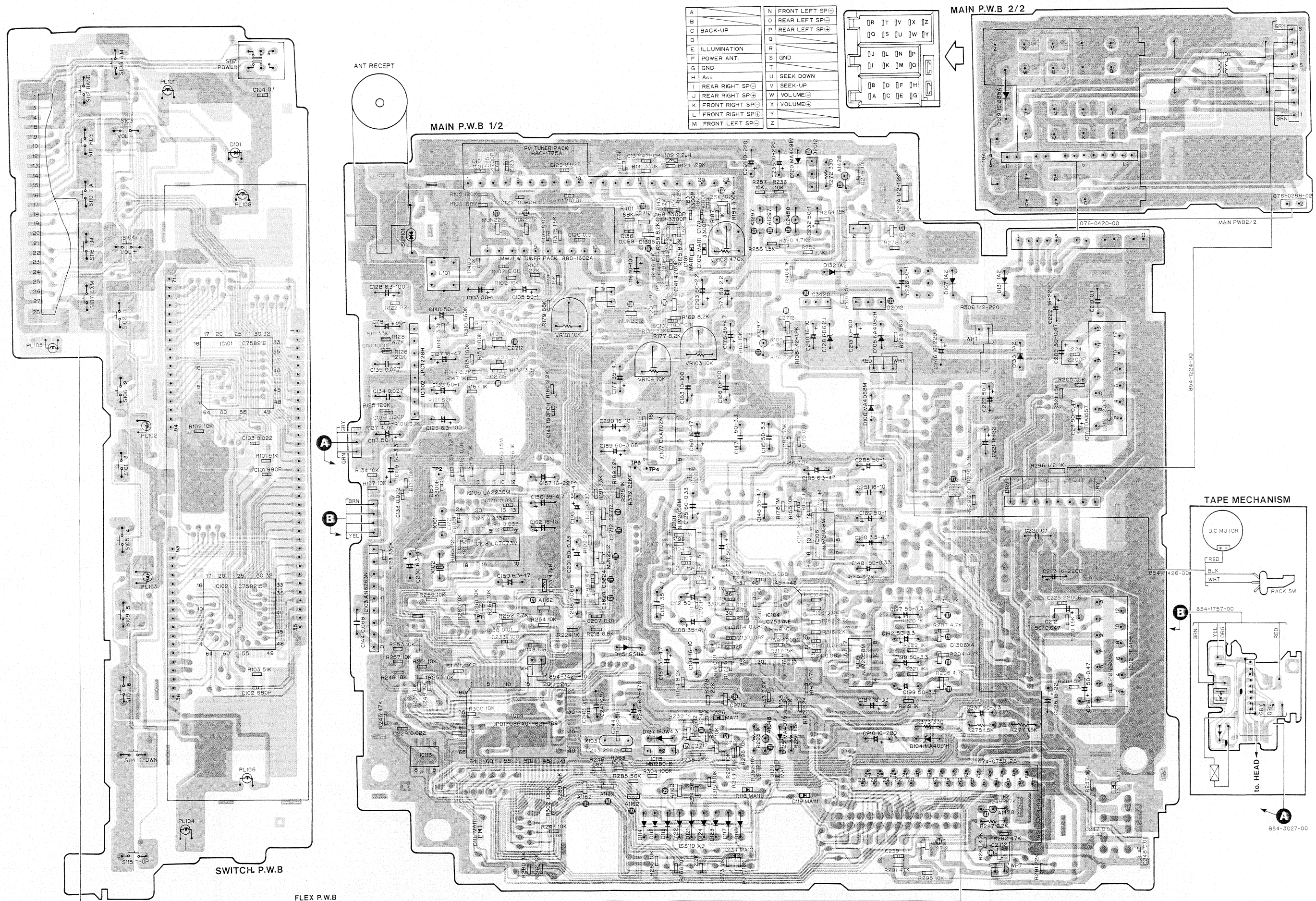
E

CIRCUIT DIAGRAM: 3/3

©Switch P.W.B

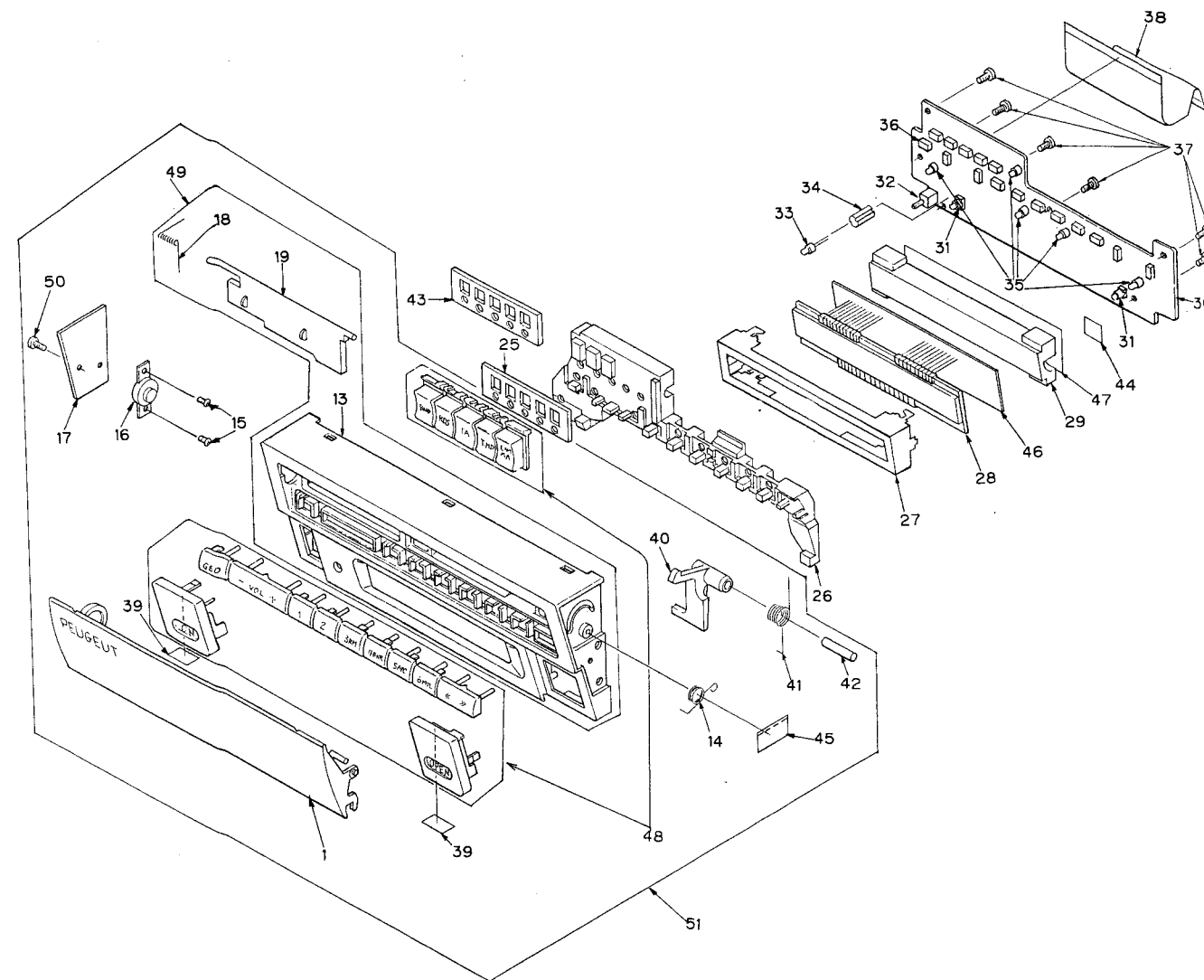


■ PRINTED WIRING BOARD:



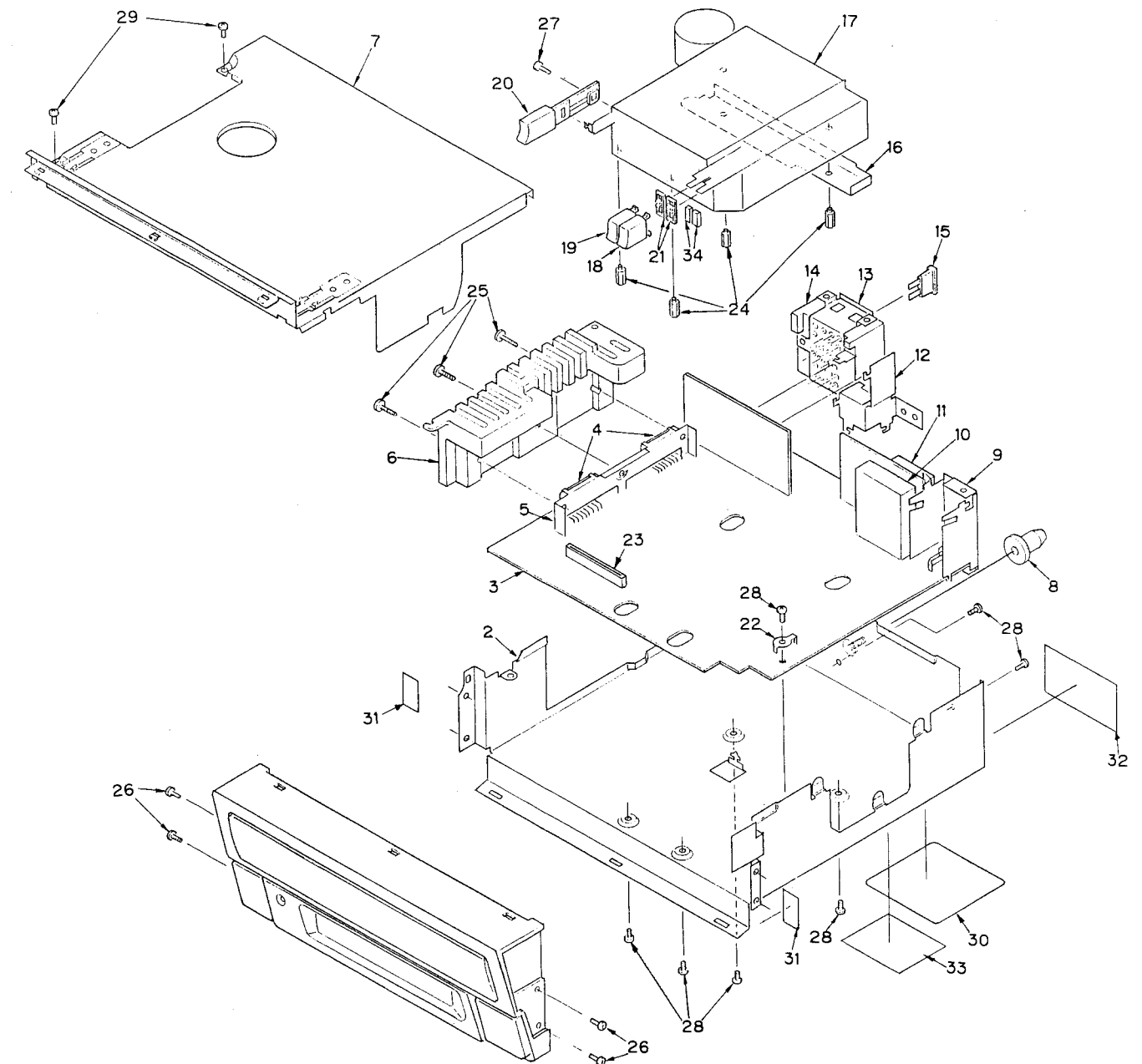
EXPLODED VIEW • PARTS LIST:

©Escutcheon section



REF NO.	PARTS NO.	DESCRIPTION	QTY
1	335-4682-01	Flap	1
13	370-5493-01	Escutcheon	1
14	750-3136-01	Spring	1
15	714-2005-81	Machine screw	2
16	629-0031-00	Gear dumper	1
17	331-9402-00	Dumper holder	1
18	750-2309-01	Spring	1
19	320-0387-82	Dustproof cover	1
25	345-7550-00	Shade	1
26	335-4686-01	Button illumi	1
27	331-0469-01	LCD cover	1
28	379-1013-21	Indicator	1
29	335-4687-00	LCD illumi	1
30	039-0245-01	Switch PWB	1
31	017-0429-02	Pilot lamp (8V105mA)	2
32	013-3849-00	Switch	1
33	001-0207-00	Diode (TLR124)	1
34	340-4329-00	Spacer	1

©Main section

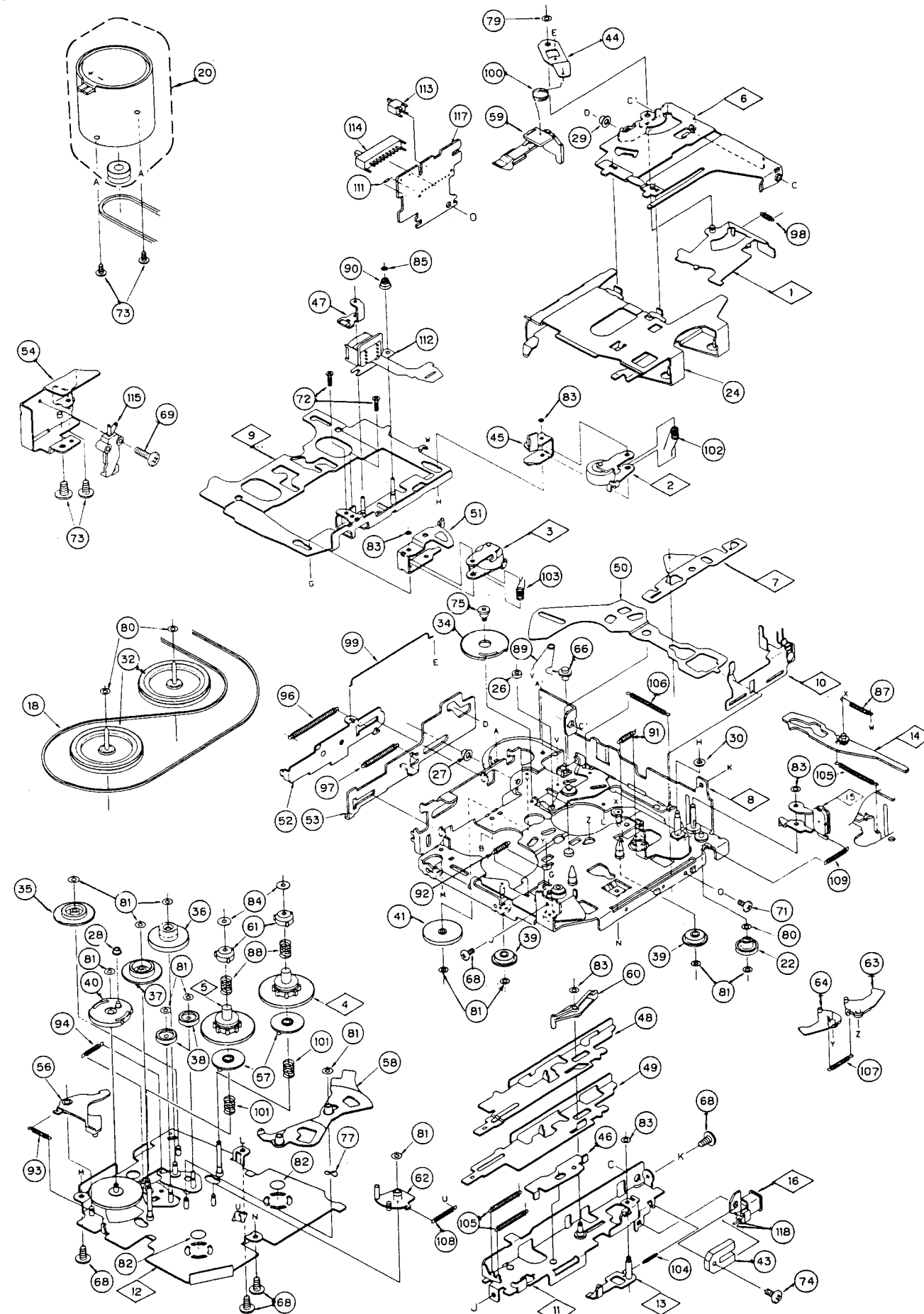


REF NO.	PARTS NO.	DESCRIPTION	QTY
2	331-1623-01	Lower case	1
3	039-0244-01	Main PWB	1
4	051-1967-00	Power IC	2
5	331-0467-00	IC bracket	1
6	313-1586-02	Heat sink	1
7	310-1553-00	Upper case	1
8	345-3653-01	Spacer	1
9	330-9842-04	ANT holder	1
10	880-1602A	MW/LW tuner pack	1
11	880-1775A	FM tuner pack	1
12	331-0471-00	Socket holder	1
13	330-9391-02	Back plate	1
14	074-0930-05	Outlet socket	1
15	060-0057-56	Auto fuse (10A)	1
16	331-0029-01	Shield plate	1
17	930-0702-85	Tape mechanism	1
18	382-3656-01	Button (FF)	1
19	382-3657-01	Button (REW)	1

REF NO.	PARTS NO.	DESCRIPTION	QTY
20	382-3655-01	Button (EJECT)	1
21	335-4242-01	Button spacer	2
22	073-0689-00	Terminal	1
23	074-0750-28	Outlet socket	1
24	716-0747-00	Screw (HEX)	4
25	714-2610-81	Machine screw	3
26	714-3006-81	Machine screw	4
27	716-1580-00	IT screw	1
28	714-3005-81	Machine screw	7
29	716-0878-00	IT screw (M2.6x5)	2
30	286-8145-01	Set plate	1
31	347-4030-00	Shade	2
32	290-4411-00	Label	1
33	290-4642-00	Label	1
34	345-4423-00	Rubber parts	2

■EXPLODED VIEW • PARTS LIST:

©Tape mechanism section 930-0702-85 (TOM-I -RM)



REF.NO.	PART NO.	DESCRIPTION	Q'TY	REF.NO.	PART NO.	DESCRIPTION	Q'TY
1	960-4141-03	Off arm ass'y	1	60	631-0659-03	Mute link	1
2	960-4146-02	Roller F-ass'y	1	61	631-1967-00	Slide bush	2
3	960-4147-02	Roller R-ass'y	1	62	631-2013-01	Cancel link	1
4	960-4154-06	Reel F-ass'y	1	63	631-2014-01	Brake-F	1
5	960-4155-06	Reel R-ass'y	1	64	631-2015-00	Brake-R	1
6	960-4194-02	Guide arm ass'y	1	66	632-1886-02	Lock pin	1
7	960-4203-02	Change-L-ass'y	1	68	714-2003-81	Machine screw (M2x3)	5
8	960-4309-01	Deck-P-ass'y-RM	1	69	714-2008-81	Machine screw (M2x8)	1
9	960-4312-02	Head-P-ass'y	1	71	716-0891-01	P.W.B screw	1
10	960-4313-03	HD-SW-P-ass'y	1	72	716-1432-00	Screw (AZIMUTH)	2
11	960-4314-02	Frame ass'y	1	73	716-0484-02	Motor screw	4
12	960-4315-01	Bottom-P-ass'y	1	74	716-1560-00	Plunger screw	1
13	960-4316-02	Lock-A-ass'y	1	75	716-1578-00	Screw (POWER GEAR)	1
14	960-4317-01	Shift-P-ass'y	1	77	745-0586-03	Spring washer (CHECK LINK)	1
15	960-4318-00	Plunger-L-ass'y	1	79	746-0622-01	Washer (OFF ARM)	1
16	960-3392-02	Coil ass'y	1	80	746-0624-00	Washer (0.25)	3
18	602-0113-01	Belt	1	81	746-0761-00	Washer	12
20	SMA-142-100	Motor ass'y	1	82	746-0767-00	Washer (FLYWHEEL)	2
22	604-0024-00	Pulley	1	83	746-0768-00	Washer (0.5 WARI)	5
24	606-0092-02	Pack guide	1	84	746-0813-00	Poly-washer (REEL-ASS'Y)	2
26	610-0293-01	Power roller	1	85	746-0832-00	Washer (HEAD)	1
27	610-0326-00	Eject roller	1	87	750-2537-02	Over-P-spring	1
28	610-0328-00	CH roller	1	88	750-2564-01	Slide spring	2
29	610-0337-00	Guide-A-roller	1	89	750-2568-00	Lock spring	1
30	610-0346-00	Head-G-roller	1	90	750-2848-00	Azimuth spring	1
32	611-0087-04	Flywheel	2	91	750-2849-02	FF P-spring	1
34	613-0094-01	Power gear	1	92	750-2850-02	REW-P-spring	1
35	613-0258-03	Gear B	1	93	750-2852-01	Lock-L-spring	1
36	613-0259-02	Gear F	1	94	750-2853-01	Idler-P-spring	1
37	613-0260-02	Gear R	1	96	750-2857-02	Eject-L-spring	1
38	613-0261-01	Idler gear	2	97	750-2858-01	Eject-P-spring	1
39	613-0262-01	FF/REW gear	2	98	750-2859-00	Off arm spring	1
40	613-0264-02	CH gear	1	99	750-2860-01	Lod spring	1
41	613-0304-10	Gear-A	1	100	750-2861-01	Slot in spring	1
43	630-1479-02	Core	1	101	750-2919-02	Check spring-R	2
44	630-2419-02	Swing arm	1	102	750-2920-01	Pinch spring-F	1
45	630-2422-05	Release link	1	103	750-2921-01	Pinch spring-R	1
46	630-2424-04	Select link	1	104	750-3010-01	Lock-A-spring	1
47	630-2427-01	Azimuth link	1	105	750-3011-00	Shift-P-spring	3
48	630-2430-05	FF lever-CR	1	106	750-3012-00	Power-P-spring	1
49	630-2431-05	REW lever-CR	1	107	750-3013-00	Brake spring	1
50	630-2432-02	Change plate	1	108	750-3014-00	Cancel spring	1
51	630-2436-04	REW link	1	109	750-3015-01	Plunger spring	1
52	630-2445-01	Eject lever-CR	1	111	001-0330-00	Diode	1
53	630-2645-00	Eject plate RM	1	112	011-0307-29	Head	1
54	630-2648-01	Switch base RM	1	113	013-3906-00	Switch (MUTE)	1
56	631-0653-02	Lock link	1	114	013-3922-00	Switch (SLIDE)	1
57	631-0656-03	Check plate	2	115	013-3924-00	Switch (MAIN)	1
58	631-0657-02	Check link	1	117	099-9573-01	P.W.B	1
59	631-0658-01	Pack stopper	1	118	800-0607-60	Vinyl-coat-wire	2

PARTS LIST: SWITCH PWB

Note) Several different parts listed in the column are alternative parts.
One of those parts is used in the set.

REF NO.	PARTS NO.	DESCRIPTION	QTY
IC101 102	051-6005-00	IC LC7582E	2
C104	043-1601-10	Chip-C 0.1 μ F	1
C103	178-2232-05	Chip-C 0.022 μ F	1
C101 102	178-6812-05	Chip-C 680PF	2

MAIN PWB

REF NO.	PARTS NO.	DESCRIPTION	QTY
D128	001-0188-01	Diode 1S1885	1
D112-115 117 118	001-0330-00	Diode 1SS119	10
	001-0352-01	Diode 1SS176	
	001-0638-00	Diode WG713A	
D106	001-0377-38	Diode MA4068M	1
	001-0376-39	Diode MTZJ6.8C	
D125	001-0377-40	Diode MA4075L	1
	001-0376-41	Diode MTZJ7.5B	
D105	001-0377-45	Diode MA4082H	1
	001-0376-46	Diode MTZJ9.1A	
D120	001-0377-47	Diode MA4091M	1
	001-0376-48	Diode MTZJ9.1C	
D104	001-0377-48	Diode MA4091H	1
	001-0376-49	Diode MTZJ10A	
D107 131-133	001-0466-01	Diode S5688B	4
	001-0626-00	Diode 1A2	
D127	001-0502-00	Diode 1FJW43	1
D101 102 111 116 119 126 130 134 135	001-0516-00	Diode MA111	9
D128	001-0567-35	Diode RD6.2JSN2	1
	001-0503-35	Diode HZS6C2L	
T101	009-0652-00	Choke	1
L104	010-2003-04	Coil	1
L102	010-2199-16	Coil	1
L103	010-2199-32	Coil	1
VR101 103 104	012-4431-06	Variable resistor	3
VR102	012-4431-13	Variable resistor	1
R228 310	032-0104-00	Film chip-R 560 Ω	1
IC102	051-0301-01	IC μ PD1228H	1
IC101 106 109	051-0556-01	IC NJM2058M	3
IC103	051-0561-01	IC AN6263N	1
IC115	051-0840-15	IC MN1280-R	1
IC104	051-0866-16	IC LC7537NE	1
IC107	051-1038-01	IC CAX1102M	1
IC108	051-1150-20	IC LC7073M	1
IC113	051-1375-65	IC	1
	051-1375-35	IC	
IC105	051-1625-00	IC LA2230M	1
IC111 112	051-1967-00	IC TDA1557	2
IC114	052-1300-01	IC μ PD17006AGF-621-3B9	1
X101	060-0115-04	Ceramic resonator	1
SUP101	060-0122-10	Surge protector	1
X102 242	060-0146-50	Ceramic resonator	2
X103	061-1053-00	Crystal	1
Q146	100-1048-00	Transistor 2SA1048	1
Q141 142 144 145 151	100-1162-00	Transistor 2SA1162	5
Q103 130 132	100-1297-28	Transistor 2SA1297GR	3
Q136 143	100-1428-00	Transistor 2SA1428	2
Q131	102-2458-00	Transistor 2SC2458	1
Q104 105 108 109 110 125 127 137 138 140 144 147 171	102-2712-00	Transistor 2SC2712	13
Q114 115	102-2712-51	Transistor 2SC2712GR,BL	2
Q148	102-3420-50	Transistor 2SC3420GR,BL	1
Q121 122	102-3624-00	Transistor 2SC3624	2
Q107 117-120	103-1306-00	Transistor 2SD1306	5

REF NO.	PARTS NO.	DESCRIPTION	QTY
Q123 135	103-2012-00	Transistor 2SD2012	2
Q113	108-0302-00	FET 2SK302	1
Q101 102 106 116	125-2031-03	Transistor MUN2212	4
C219 220	172-1041-11	Polyest-C 0.1 μ F	2
C241	172-1541-11	Polyest-C 0.15 μ F	1
C134 135	172-2731-11	Polyest-C 0.027 μ F	2
C144 208	172-6831-11	Polyest-C 0.068 μ F	2
C174 175 184 193	043-1600-33	Chip-C 0.033 μ F	4
C136 214 215	043-1600-68	Chip-C 0.068 μ F	3
C113 114 164 165	043-1600-82	Chip-C 0.082 μ F	4
C239 242	043-1601-10	Chip-C 0.1 μ F	2
C122	176-1011-00	Chip-C 100PF	1
C134 142 143	176-1811-00	Chip-C 180PF	3
C243 244	176-2201-00	Chip-C 22PF	2
C137	176-4701-00	Chip-C 47PF	1
C106 110 182 233	178-1022-05	Chip-C 1000PF	4
C101 102 120 123 131 138 149 161 179 207 247 248 253 294	178-1032-05	Chip-C 0.01 μ F	14
C171	178-1222-05	Chip-C 1200PF	1
C121 158 217 218 224 225	178-2222-05	Chip-C 2200PF	6
C109 129 133 229	178-2232-05	Chip-C 0.022 μ F	4
C107 156	178-2712-05	Chip-C 270PF	2
C117 119 131 153 154 163 166 168	178-3322-05	Chip-C 3300PF	8
C115 141	178-4722-05	Chip-C 4700PF	2
C172	178-6822-05	Chip-C 6800PF	1
C103 105 109 111 112 117 118 139 140 227 232 236 285	183-1053-62	Electro-C 50V 1 μ F	13
C162 240 290	183-1063-32	Electro-C 16V 10 μ F	3
C104 251	183-1066-31	Electro-C 16V 10 μ F	2
C126 128	183-1073-12	Electro-C 6.3V 100 μ F	2
C116 183 186 213	183-1073-22	Electro-C 10V 100 μ F	4
C173 293	183-2253-62	Electro-C 50V 2.2 μ F	2
C157 221 226	183-2263-32	Electro-C 16V 22 μ F	3
C125 148 201	183-3343-62	Electro-C 50V 0.033 μ F	3
C159 192 197 198 199 237	183-3353-62	Electro-C 50V 3.3 μ F	6
C147 155	183-3356-62	Electro-C 50V 3.3 μ F	2
C187	183-3363-22	Electro-C 10V 33 μ F	1
C209 211 212 216	183-4743-62	Electro-C 50V 0.47 μ F	4
C108 117 150 160 167 178 195	183-4753-52	Electro-C 35V 4.7 μ F	7
C130 146	183-4756-52	Electro-C 35V 4.7 μ F	2
C108 185 230	183-4763-12	Electro-C 6.3V 47 μ F	3
C127 190	183-4763-32	Electro-C 16V 47 μ F	2
C189	183-6843-62	Electro-C 50V 0.68 μ F	1
C210 235 291	184-2273-22	Electro-C 10V 220 μ F	3
C222 223 246	184-2283-32	Electro-C 16V 2200 μ F	3
C245	184-4773-12	Electro-C 6.3V 470 μ F	1

